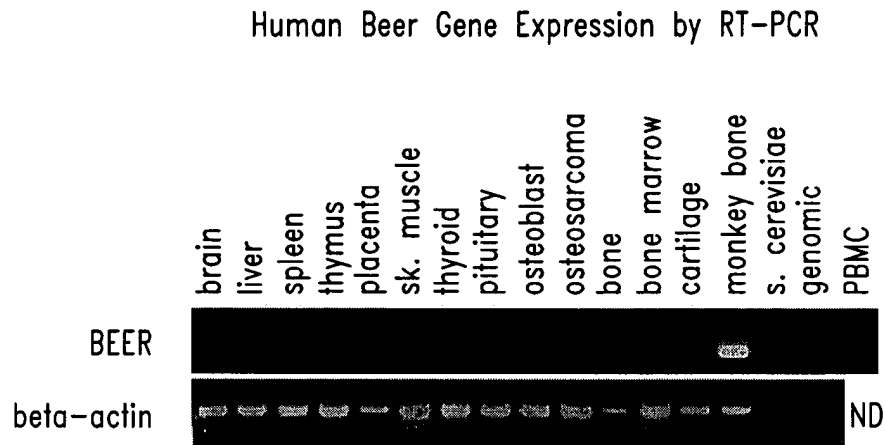


### Common Cysteine Backbone

1					50
human-gremlin.pro	-----	-----	-----	-----	-----
human-cerberus.pro	MHLLLFQLLV	LLPLGKTTRH	QDGRQNQSSL	SPVLLPRNQR	ELPTGNHEEA
human-dan.pro	-----	-----	-----	-----	-----
human-beer.pro	-----	-----	-----	-----	-----
	51				100
human-gremlin.pro	-----	-----	M SRTAYTVGAL	LLLLGTLLPA	AEGKKKGSQG
human-cerberus.pro	EKKPDLFVAV	PHLVAT.SPA	GEGQRQREKM	LSRFGRFWKK	PEREMHPSRD
human-dan.pro	-----	-----	-----	-----	-----
human-beer.pro	-----	-----	-----	-----	-----
	101				150
human-gremlin.pro	AI.PPPDKAQ	HNDSEQTQSP	QQPGSRNRGR	GQGRGTAMPG	EEVLESSQEA
human-cerberus.pro	SDSEFPFPGT	QSLIQPID.G	MKMEKSPLRE	EAKKFVHHFM	FRKTPASQGV
human-dan.pro	-----	-----	-----	MLRVLVGAVL	PAMLLAAPP
human-beer.pro	AFRVVEGQGW	QAFKNDATEI	IPELGEYPEP	PPELENNKTM	NRAENGGRPP
	151				200
human-gremlin.pro	LHVTERKYLK	RDWCKTQPLK	QTIHEEGCNS	RTIINRF.CY	GQCNSFYIPR
human-cerberus.pro	ILPIKSHEVH	WETCRTVPFS	QTIHEGCEK	VVQNNL.CF	GKCGSVHFP.
human-dan.pro	INKLALFPDK	SAWCEAKNIT	QIVGHSGCEA	KSIQNRA.CL	GQCFSYSYPN
human-beer.pro	HHPFETKDVS	EYSCRELHFT	RYVTDGPCRS	AKPVELVCS	GQCGPARLLP
	201				250
human-gremlin.pro	HIRKEEGSFQ	SCSF...CKP	KKFTTMMVTL	NCPQLQPPTK	K.KRVTRVKQ
human-cerberus.pro	..GAAQHSHT	SCSH...CLP	AKFTTMHLPL	NCTELSSVIK	V...VMLVEE
human-dan.pro	TFPQSTESLV	HCDS...CMP	AQSMWEIVTL	ECPGHEEVPR	VDKLVEKILH
human-beer.pro	NAIGRGKWWR	PSGPDFRCIP	DRYRAQRVQL	LCPGGEAPRA	RKVRLVAS..
	251				300
human-gremlin.pro	CRC.ISIDLD	-----	-----	-----	-----
human-cerberus.pro	CQCKVKEHE	DGHILHAGSQ	DSFIPGVSA-	-----	-----
human-dan.pro	CSCQACGKEP	SHEGLSVYVQ	GEDGPGSQPG	THPHPHPHPH	PGGQTPEPED
human-beer.pro	CKCKRLTRFH	NQSELKDFGT	EAARPQKGRK	PRPRARSAKA	NQAELENAY-
	301	314			
human-gremlin.pro	-----	-----			
human-cerberus.pro	-----	-----			
human-dan.pro	PPGAPHTEEE	GAED			
human-beer.pro	-----	-----			

*Fig. 1*



*Fig. 2*

RNA In Situ Hybridization of Mouse Embryo Sections

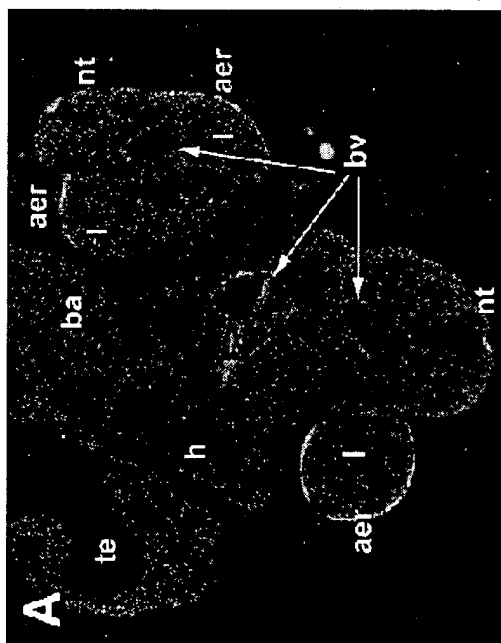


Fig. 3A

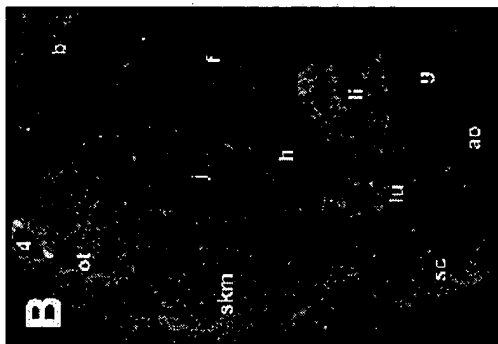


Fig. 3B

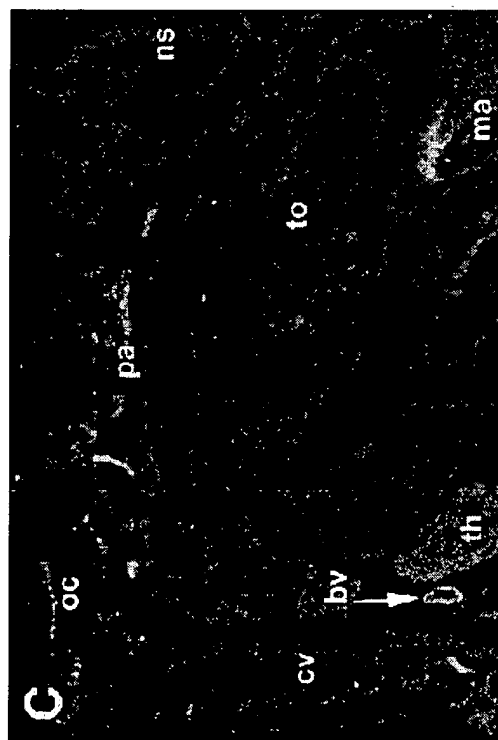


Fig. 3C

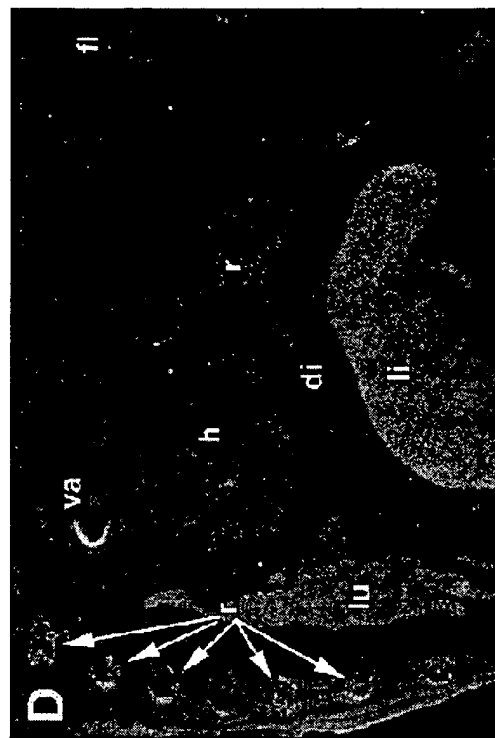
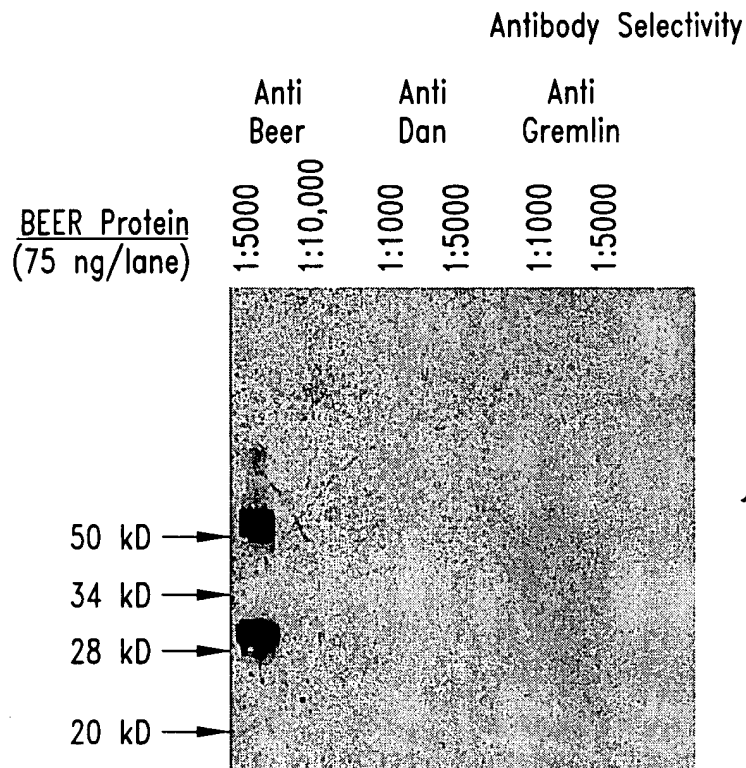
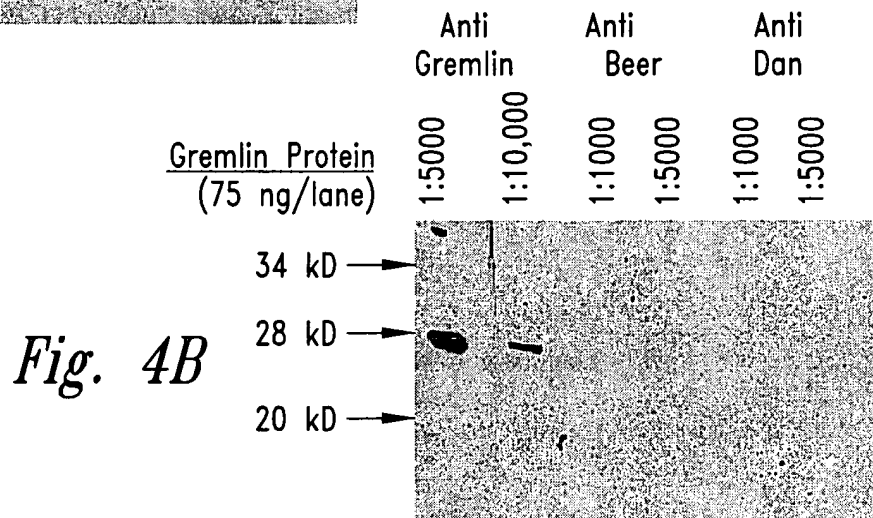


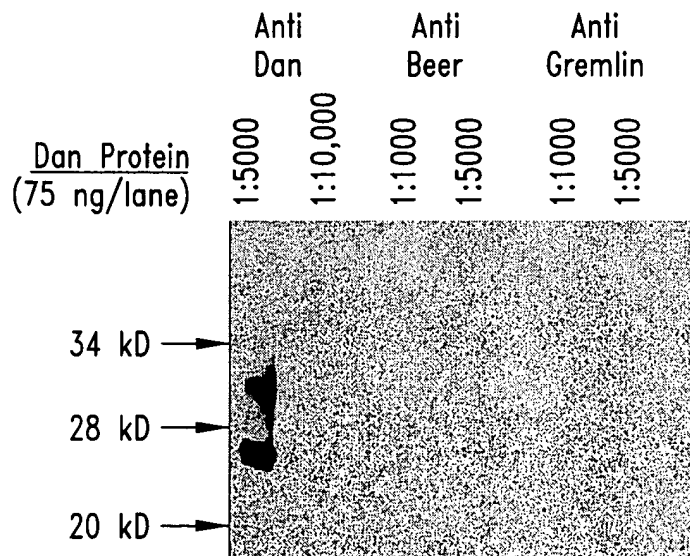
Fig. 3D



*Fig. 4A*



*Fig. 4B*



*Fig. 4C*

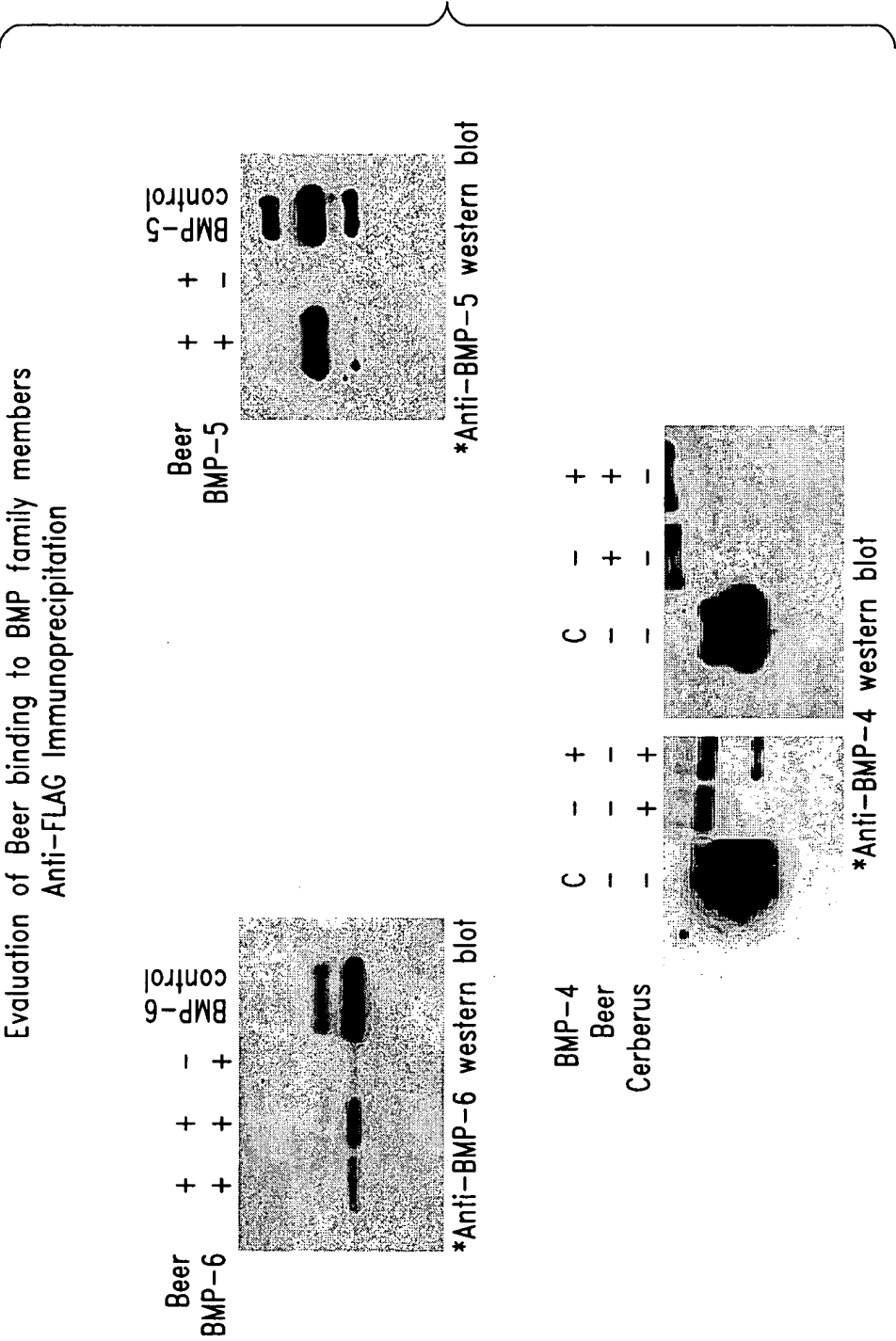
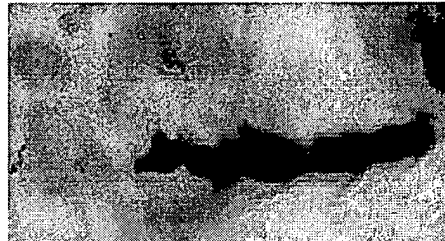


Fig. 5

BMP-5/Beer Dissociation Constant Characterization

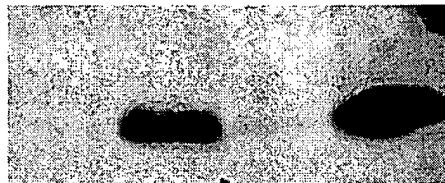
.75 1.5 7.5 15 30 60 120 nM BMP-5



\*Anti-FLAG immunoprecipitation  
\*Anti-BMP-5 western blot

Ionic Disruption of BMP-5/Beer Binding

NaCl(mM)	500	150	150	BMP-5	western control
Beer	+	+	-		
BMP-5	+	+	+		



\*Anti-FLAG immunoprecipitation  
\*Anti-BMP-5 western blot

*Fig. 6*